

Claims

1. A peptide having an amino acid sequence of Formula I (SEQ ID NO: 1):

X₁FGAPX₂ X₃ in which

5 X₁, is selected from Aspartic acid and a derivative thereof selected from acylated and alkylated Aspartic acid;

X₂ is Leucine or when X₃ is absent, X₂ is selected from Leucine and amidated Leucine;

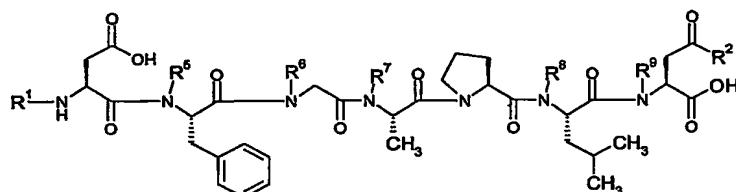
X₃ is absent or selected from Aspartic acid and amidated Aspartic acid;

10 as well as salt and any derivative or analogue thereof.

2. A peptide according to claim 1 wherein X₁ and X₃ are Aspartic acid.

3. A peptide according to claims 1 or 2 wherein X₃ is absent.

15 4. A peptide according to any of the preceding claims of the Formula II below:



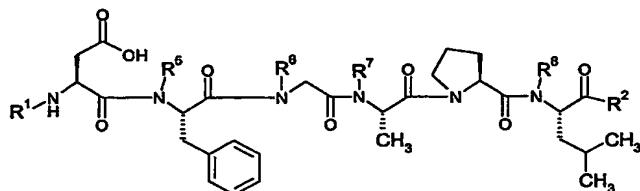
20 Formula II

wherein R¹ is selected from H, C₂-C₆ acyl and C₁-C₆ alkyl; R² is selected from OH and NR³R⁴, wherein R³ and R⁴ are independently selected from H and C₁-C₆ alkyl and R⁵, R⁶, R⁷, R⁸ and R⁹ are independently selected from H and C₁-C₆ alkyl.

25 5. A peptide according to claim 4 wherein R¹ is selected from H and C₂-C₆ acyl and R² is selected from OH and NH₂.

6. A peptide according to claim 4 wherein R¹ is H and R² is OH.

7. A peptide according to claim 1 of the Formula III below:



Formula III

wherein R¹ is selected from H, C₂-C₆ acyl and C₁-C₆ alkyl; R² is selected from OH and NR³R⁴, wherein R³ and R⁴ are independently selected from H and C₁-C₆ alkyl and R⁵, R⁶, R⁷ and R⁸ are independently selected from H and C₁-C₆ alkyl.

10 8. A peptide according to claim 7 wherein R¹ is selected from H and C₂-C₆ acyl and R² is selected from OH and NH₂.

15 9. A peptide according to claims 7 or 8 wherein R¹ is acetyl and R² is NH₂.

10 10. A peptide according to any of the preceding claims wherein R⁵, R⁶, R⁷ and R⁸ are H.

20 11. A peptide according to any preceding claims selected from the following group:
SEQ ID NO. 2, SEQ ID NO. 3 and SEQ ID NO. 4.

12. A compound according to any of the preceding claims for use as a medicament.

25 13. Use of a peptide according to claims 1 to 11 for the preparation of a medicament for the treatment or prevention of an amyloidosis disorder related to IAPP.

14. Use according to claim 13 wherein the amyloidosis disorder is a diabetic disorder.

15. Use according to claim 14 wherein the diabetic condition is Type II diabetes.

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16. Use according to claim 14 wherein the diabetic condition is post-transplantation Type I diabetes.

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17. A pharmaceutical composition comprising a compound according to claims 1 to 11 as active ingredient and a pharmaceutically acceptable excipient or carrier.

18. A method of treating or preventing diabetic disorders by administering an effective amount of any of the peptides or compounds of claims 1 to 11 to a subject in the need thereof.

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19. A method according to claim 18, in which the subject is human.